

Tuesday 13 June

18:00 Reception at Hotel de Borken

Wednesday 14 June

9:00 Registration

9:15 Welcome

Status of the telescopes and data available for early science;

Chair: E. Sadler

9:30	James	Allison	CSIRO Astronomy & Space Science	ASKAP Status Update
9:55	Bradley	Frank	University of Cape Town	MeerKAT
10:20	Yogesh	Chandola	NAOC	FAST status and update

10:45 **Coffee**

11:15	Betsey	Adams	ASTRON	Apertif
11:35	Tom	Oosterloo	ASTRON/Kapteyn Astronomical Institute	Status and progress of Apertif
11:55	Zsolt	Paragi	JIVE	Opportunities from VLBI

12:15 Discussion: Status of the telescopes (chair: E. Sadler)

13:00 **Lunch**

Experience built and tools available for the handling and analysis of new data

Chair: N. Gupta

14:00	Ravi Sharma and Dolly Gyanchandani	ThoughtWorks	Automated data processing for uGMRT and MeerKAT absorption line surveys	
14:25	Filippo	Maccagni	ASTRON - Kapteyn Institute	The Last Survey of the old WSRT: tools and results for the future HI absorption surveys
14:50	Stephen	Curran	Victoria University of Wellington	Machine learning for HI absorption

15:15 **Coffee**

15:45	James	Allison	CSIRO Astronomy & Space Science	A statistical method for measuring the HI spin temperature
16:10	Martin	Meyer	ICRAR/UWA	Status of SKA for HI absorption

16:35 Discussion: Status of the analysis tools (chair: N. Gupta)

circa 17:30:00 **Drinks**

Thursday 15 June

Planning for the HI absorption surveys

Chair: T. Oosterloo

9:30	Eric	Wilcots	University of Wisconsin	Using HI Absorption to Probe the CGM and IGM in Galaxy Groups
9:55	Lister	Staveley-Smith	ICRAR/UWA	Evolution of Cosmic Gas Density
10:20	Elaine	Sadler	University of Sydney	A successful search for intervening 21 cm HI absorption at $0.4 < z < 1$ with ASKAP

10:45 **Coffee**

11:15	Neeraj	Gupta	IUCAA	Blind HI and OH absorption line search: status update on MALS and early results from uGMRT
11:40	Raffaella	Morganti	ASTRON/Kapteyn Inst	SHARP: the HI absorption survey with Apertif

12:05 Discussion: Planning for large surveys (chair: T. Oosterloo)

12:45 **Lunch**

Early science results before the large surveys

Chair: J. Allison

14:00	Julie	Davis	University of Wisconsin-Madison	HI Absorption with CHILES
14:25	Attila	Popping	ICRAR/UWA	Linking absorption and emission measurement of the CGM with IMAGINE
14:50	Sanchayeeta	Borthakur*	Johns Hopkins University	Tracing the coolest neutral gas component of galaxies <i>(to be confirmed)</i>
15:15	Stephen	Curran	Victoria University of Wellington	The spin temperature of damped Lyman-alpha absorption systems and star formation history

15:40 Coffee

16:00	Rajeshwari	Dutta	IUCAA	Distribution of cold gas around galaxies
16:25	Yogesh	Chandola	NAOC	HI absorption towards low luminosity radio AGNs of different accretion modes and WISE colours
16:50	Aditya	JNHS	IUCAA	Cold Gas in High Redshift Active Galaxies

17:15 Discussion part I: Strategy for optical/mm/other follow-up of the large surveys (chairs: Allison and van der Hulst)

17:45 End second day

Social dinner

Friday 16 June

Early science results before the large surveys (continue)

Chair: T. van der Hulst

9:30	Elizabeth	Mahony	University of Sydney	Searching for HI absorption in the brightest southern radio galaxies
9:55	Bjorn	Emons	Centro de Astrobiologia	Atomic gas in the halo of a massive proto-cluster galaxy: prospects for high-z HI studies

10:20 Discussion part II: Strategy for optical/mm/other follow-up of the large surveys (chairs: Allison and van der Hulst)

10:50 Coffee

Follow-up and synergies

Chair: N. Maddox

11:20	Robert	Schulz	ASTRON	Probing HI outflows on parsec scales in radio galaxies with VLBI
11:45	Martin	Zwaan	ESO	Parsec-scale HI absorption structure in a low-redshift DLA galaxy

12:10 Lunch

13:30	Vanessa	Moss	ASTRON	Connecting HI and soft X-ray absorption in distant AGN with next-generation telescopes
13:55	Alastair	Edge	Durham University	HI and CO absorption against the cores of Brightest Cluster Galaxies
14:20	Raymond	Oonk	ASTRON / Leiden	The role of the cold atomic gas in our Galaxy and beyond.
14:45	Kimberly	Emig	Leiden Observatory	Unveiling the physical conditions of neutral gas with radio recombination lines

15:10 Final wrap up and discussion chaired by the SOC

15:40 End of workshop